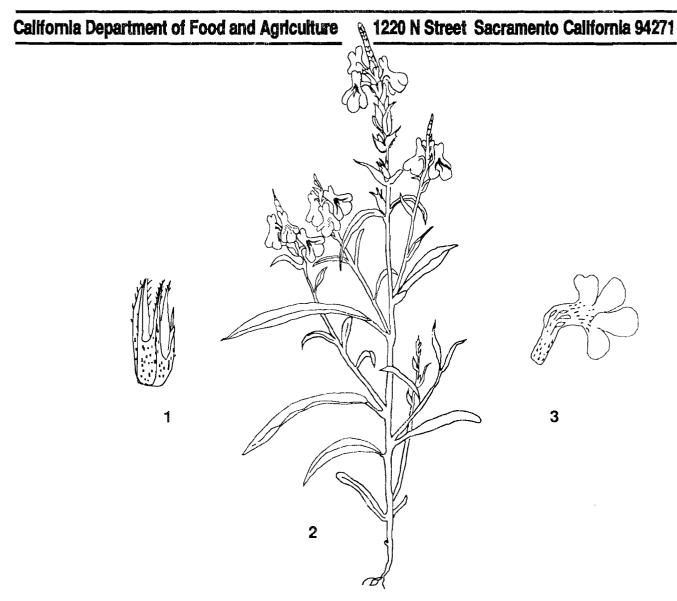


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A witch weed, *Striga hermonthica*.. 1. calyx; 2. entire plant; 3. opened flower The source for the art work is Hosmani, 1978. See cover story on page 60.

Correspondence should be addressed to the appropriate member of the editorial staff of the California Plant Pest and Disease Report (C.P.P.D.R.):

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-A NOTE FROM THE ENTOMOLOGY EDITOR-

C.P.P.D.R. has always been a kind of experiment. It has never had any particular direction although the current editors are attempting to follow the list of objectives enumerated below. There has not been particularly strong support for the project within the Division of Plant Industry over the years and this is <u>not</u> likely to change. However those who have supported C.P.P.D.R. in the past are greatly appreciated. Most importantly, the response of our reading audience seems to indicate that this publication is worth while.

C.P.P.D.R. is:

- 1. An attempt to inform interested individuals of current events of plant quarantine significance;
- 2. A vehicle for the publication of new information generated by Analysis and Identification Branch personnel about plant pests such as economics, locality records, host data, changes in pest habits or biologies, and of various research projects conducted by laboratory personnel; and
- 3. An effort to acknowledge and bring credit to those who make the discoveries of new infestations of exotic pests or discover other information worthy of reporting.

Continuation of C.P.P.D.R. in the future is limited to: (not including administrative whim, the researcher's desire to use this publication vehicle and the editors' energies) the continued discoveries of new pests and on-going pest problems in California. At this point in time, there seems to be no end to sufficient subject matter for the future. Also, articles continue to be welcome from workers outside the Department who wish to convey information regarding agricultural pests.

In a sense, this issue is another kind of experiment. It is wholly produced and modified on a computer. <u>All</u> written words, illustrations, graphs, headers, layout and so on have been passed through an Apple Macintosh Plus™ computer and produced with Macintosh compatible programs as camera ready copy on an Apple laser printer. This issue is the editors' experiment with the "New Technology," a technology that is simply mind-boggling. This is not an experiment with word processing or spreadsheets or data management, but something much more far reaching. It is the <u>combination</u> of computer generated scientific illustrations and visual graphics with word processing and databases. That is, illustrations that are as easy to produce, to change, to improve, as a word in a word processing program or a number in a spread sheet. A picture is said to equal a thousand words. It is hoped that these computer graphics will be that valuable to the reader in this issue and in future issues.

While there are no original scientific illustrations in this issue, only redrawn or scanned ones, the potential for new, computer generated, print quality scientific illustrations and graphics can no longer be ignored. The superior computer programs used to produce this issue are primarily the personal possessions of the Entomological editor. Their use was meant as a testimonial to the worth of these computer systems as publication tools in order to alert the attentions of Departmental management, our research community and our readers that such publication potential now exists. It would be in the best interests of both our contributers and our readers to further pursue this new and expanding technology.

COVER STORY

WITCHWEEDS—PARASITIC PLANTS

by Tammy Chinn CDFA, Exotic Pest Analysis Staff

"Witchweed" refers to a group of parasitic plants within the genus *Striga* (Scrophulariaceae) that attack the roots of numerous graminaceous and leguminous crops such as corn, sorghum and cowpeas. At least twenty-five species of *Striga* have been identified and evidence suggests the existence of distinct strains within species.

Striga plants are aesthetically pleasing with colorful flowers typical of the monkey flower family. Despite its appearance, Striga is an obligate xylem parasite, siphoning nutrients and water from its host, effecting drought-like conditions even in the presence of adequate moisture. Yields are significantly reduced and in many cases, total crop failure may result.

Striga is an Old World genus; documentation of the weed in Asia and Africa dates back to the 18th century. In the United States, Striga asiatica (L.) Kuntze has been under quarantine in North and South Carolina since the late 1950's.

Large numbers of long-lived seeds, combined with an ability to adapt to adverse soil and water conditions, make witchweed difficult to fully eradicate, although it can be controlled.

Witchweed requires exposure to a chemical compound, typically exuded from the host root, in order to germinate. Subsequent to germination, the parasite must attach itself to a suitable host within four days to avoid death. Artificial stimulants, used in the absence of a susceptible host, induce "suicidal" germination and have become a popular method of control. Complete eradication is unlikely due to the fact that each *Striga* plant produces up to 500,000 seeds, each having a life span of approximately 20 years.

Witchweed does poorly in high quality soils that are well-structured and high in nutrients. Maintaining healthy soil systems and early detection are key prevention measures that should be employed in California.



Fig. 1. *Striga asiatica* from India attached to host. a: Roots of the host: Jawar. b: Stem of *S. lutea*. c: roots of *Striga* with haustoria on roots of the host, Jawar. d: *Striga* flower. e: Flower cut open. f: Pistil. g: Seed (modified 100 times).

Fig. 2. Striga gesnerioides.

The source for these illustrations is Hosmani, 1978.

ENTOMOLOGICAL



This volume of C.P.P.D.R. is a summary of the entomological "happenings" of November and December, 1987 and a recapitulation of all of 1987 as it relates to finds of certain specific quarantined organisms. This year's exotic pest finds are also compared with collections over the last 5 years.

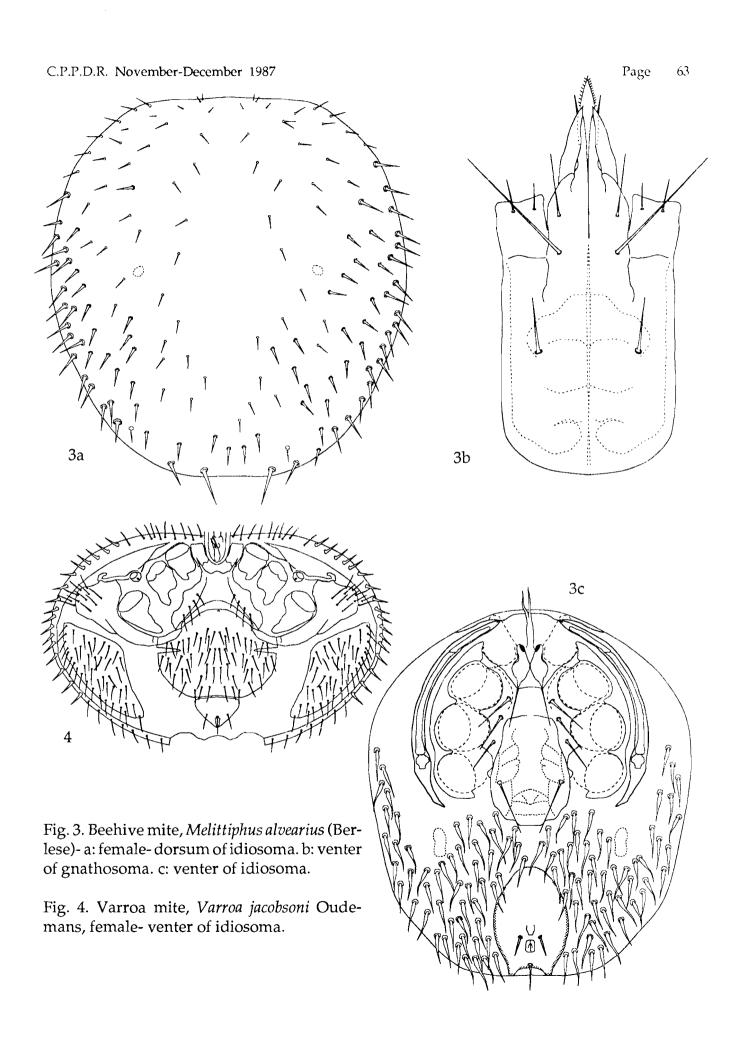
The editor generally restricts entries into the last issue to finds made that year. However, occasionally new pests appear which are important enough to be included even though the event occurred after the end of the calender year. The following collection record is significant enough to be covered in this category.

BEE-HIVE MITE, Melittiphis alvearius -(Q)- A new mite known to infest bee hives has been found during a varroa mite survey at Lower Lake, Lake County. The collection was made on January 15, 1988 by Chuck Morse and Chris Twohy. This is a new State record.

There are several spellings of both the scientific and family names of this mite and it has been placed in two different families at one time or another. The present accepted name is Melittiphis alvearius (Berlese). The generic name has been spelled *Mellitiphis* in the literature. The mite is now placed in the family LAELAPIDAE (once spelled LAELAPTIDAE) and it was once placed in the family Eviphididae. The derivation of the current scientific name is from the Greek words "Melissa" and "Phileo," meaning honeybee-loving and from the Latin word "alvearium," meaning bee hive.

The economic status of the mite is unknown at this time. It is believed to be an actual parasite of the honey bee but this has not been established with certainty. The mite has been known in Europe for many years and it was discovered in New Zealand in 1974.

The mite is easily separated from the varroa mite because of its circular shape. The varroa mite is much more transversely elongate, and is obviously wider than long.



SIGNIFICANT FINDS

MELON FLY, *Dacus cucurbitae* -(A)- A total of 7 melon flies were trapped during this period in Los Angeles County. The following series of reports by John Pozzi outline the finds:

"Two melon flies were trapped on November 20 and 21, 1987, in El Segundo, Los Angeles County.

The first melon fly was a male detected in a McPhail trap placed in a lemon tree on West Imperial Avenue. The second melon fly was a female that was found a few blocks away in a McPhail trap placed in an apple tree on West Walnut Avenue.

Los Angeles County trapper Wendy Shepard is credited with finding both melon flies.

McPhail trap density in the area of the finds was 5 traps per square mile. In response, Los Angeles County has increased the trap densities to protocol levels for new melon fly finds. Jackson/cue lure trap densities have been increased over an 81-square mile area to a 50-25-15-10-5 array. In the core square mile the McPhail trap density was increased to 25 traps per square mile. McPhail trap density was already at a 5 traps per mile throughout the 81-square mile area.

The last melon flies trapped in California were found last year in Los Angeles County. One was trapped on January 22, in Los Angeles and one on September 22."

"Four melon flies were trapped between November 25 and 27, 1987 in El Segundo, Los Angeles County. All of the flies were detected within a few blocks of each other and are in the vicinity of melon flies trapped earlier this month in Los Angeles County.

Two of the melon flies were sexually mature males that were detected in Jackson/cue lure traps placed along West Imperial Avenue and Virginia Street in lemon and guava trees, respectively. Two sexually immature female melon flies were found in the same McPhail trap placed in a lemon tree on West Walnut Avenue.

Los Angeles County Department of Agriculture Trappers Rogelio Argueta and Paul White are credited with finding the melon flies."

"A sexually immature male melon fly was trapped November 27, 1987, in El Segundo, Los Angeles County. It was found in a McPhail trap placed in a lemon tree along West Maple Avenue and is near previously reported melon fly trap finds. Los Angeles County Trapper Rogelio Argueta is credited with finding the melon fly.

On November 27, CDFA initiated a ground foliar application of malathion and bait on city and adjoining blocks where melon flies have been detected. Male annihilation treatments using cue-lure and naled was scheduled to begin December 1 in a 1.5 mile radius around all melon fly trap finds."

ORIENTAL FRUIT FLY, *Dacus dorsalis* -(A)- One female was trapped in Santa Ana, Orange County during this period. The following report by John Pozzi outlines the find:

"An unmated female Oriental fruit fly was trapped on November 23, 1987, in Santa Ana, Orange County. The fly was found in a McPhail trap placed in an orange tree on East 15th Street. A female fly was trapped earlier at this same location on September 29. CDFA Inspector John Hooper is credited with finding the Oriental fruit fly.

McPhail and Jackson/methyl eugenol trap density in the area is 25 traps per square mile. The find is in the Santa Ana Oriental fruit fly male annihilation treatment zone."

GUAVA FRUIT FLY, *Dacus correctus* -(A)- One male was trapped in San Leandro, Alameda County. For full details see the following report by John Pozzi:

"A male guava fruit fly was trapped on November 6, 1987, in San Leandro, Alameda County. The fly was found in a Jackson/methyl eugenol trap placed in a fig tree on Kent Avenue. Alameda County Trapper Matt Owen is credited with finding the fly.

Jackson/methyl eugenol trap densities have been increased to 25 traps in the epicenter square mile. Jackson/methyl eugenol trap density is being increased to five traps per mile in an 80 square mile area around the epicenter."

Previous guava fruit flies have been trapped in Los Angeles County. This is the first collection this far north.

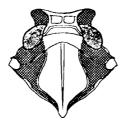
NEW COUNTY RECORDS

A CIXIID PLANTHOPPER, *Pintalia delicata* -(C)- Two separate collections of this unusual planthopper have been made from apple maggot traps at widely separated locations in the city of Stockton, San Joaquin County. The collections were made by B. Heukstedt in traps placed in an apple and a crab apple tree on Aug. 19 and Sept. 10. The original identifications were made by Kirby Brown, San Joaquin County Entomologist.

According to the literature, it is common in the southeastern U. S. and has occurred as far west as Arizona. It was apparently first found in Blythe, Riverside County in 1958 and later at Fullerton, Orange County in 1967. It also occurs in Imperial County. Its life history, host plants and economic importance are not known. Figures 4 and 5 indicate the physical appearance of this planthopper.



Fig. 4. Adult of Pintalia delicata (Fowler), lateral view.



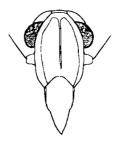


Fig.5. Pintalia delicata (Fowler), (left) dorsal view of head: (right) ventral view of head.

SOUTHERN GREEN STINKBUG, Nezara viridula -(Q)- Collected for the first time in Contra Costa County at Oakley on November 3 by Laurie Stout. Another Contra Costa collection was made at Brentwood on Nov. 11 by Liese Greensfelder of Ag. Extension.

A further collection at Spring Valley, San Diego County by Belinda Moss on Nov. 10 indicates that the species is definitely established in that County. The species is also known from Yolo, Solano, Sacramento and San Joaquin Counties.

MISCELLANEOUS FINDS OF SIGNIFICANCE

MAGNOLIA WHITE SCALE, Pseudaulacaspis cockerelli -(A)- Two separate collections of this armored scale pest were made in California nurseries during this period. The first find was at Chula Vista, San Diego County on Dec. 4 by Jim Kenyon. The second find was at El Cajon, San Diego County on Dec. 24 by Jim Kenyon and Ann Sixtus.

A BEAN WEEVIL, Zabrotes subfasciatus -(B)- Collected from dry beans at El Centro, Imperial County on Dec. 2 by Richard Weddle.

CHINESE WAX SCALE, Ceroplastes sinensis -(B)- Santa Barbara County personnel have occasionally found one or two specimens of this scale at various locations throughout the city of Santa Barbara. None of the infestations have ever indicated the large population potential that is seen in this species in the Bay Area--until now! Santa Barbara County Entomologist Jerry Davidson has discovered a very heavy infestation of the scale in Santa Barbara on Schinus terebinthifolius.

PROBLEM SPECIES

FULLER ROSE BEETLE, Pantomorus cervinus -(C)- This weevil has been a serious pest in southern California citrus groves where the fruit is scheduled for shipment to Japan. That country has a strict quarantine against the weevil and against fruit which contains viable egg masses, usually under the calyx cap of the fruit. In August, a very good article on this pest was produced by six authors from U. C. Extension led by J. G. Morse. The article is entitled "Monitoring Fuller rose beetle populations in citrus groves and egg masses on fruit." The article appears in Sunkist Growers Pest Control Circular #547: 1-8. It is highly recommended reading for all southern California Field Entomologists.

EXOTIC PEST FINDS IN CALIFORNIA—A TWO TO SIX YEAR PERSPECTIVE

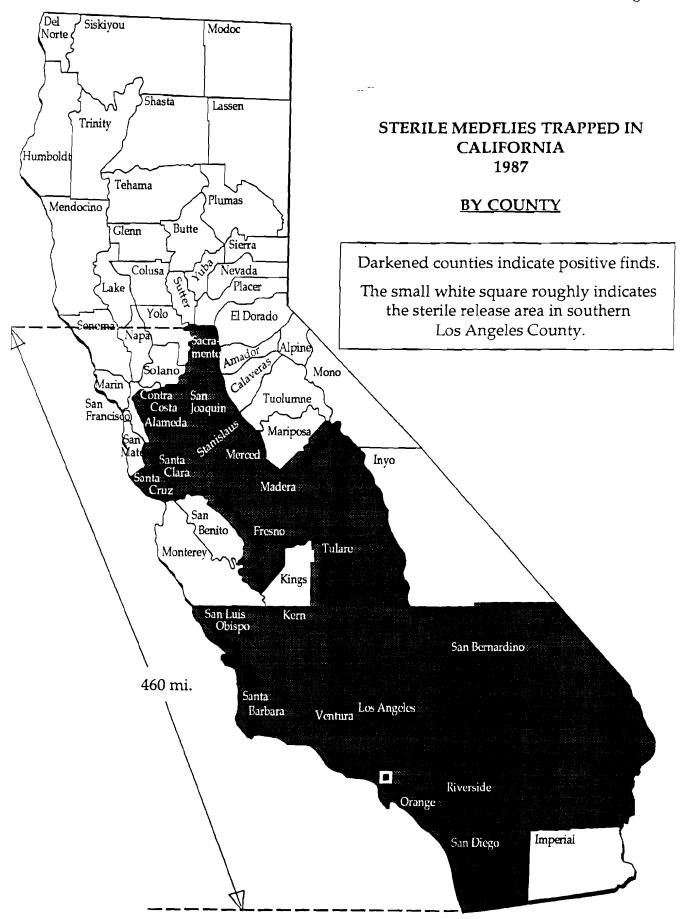
The Pest Detection/ Emergency Projects Branch of CDFA, under the direction of Don Henry, is responsible for the detection of new and exotic agricultural pests in the state. One member of the staff, John Pozzi, has been the records keeper for the unit and has, with the help of other staff members, produced some interesting data on exotic pest finds in the state over the last six years. This data will be shared here along with a startling look at how easily insect pests can be transported from place to place. The gathering and maintenance of the information used in the database from which these graphs and charts were produced is a team effort by the following PD/EP staff: Becky Burgess, Jeff Bowen, Debbie Haines, Amy Hauck, Susan Henley and Pat Walker. The first report as well as the accompanying map list the trapping locations for sterile Mediterranean fruit flies which had been released in the core eradicative treatment zone in Los Angeles. Many of the finds are most certainly due to the movement of the flies in cars and trucks. Records for Los Angeles and Orange counties were kept separately by each County and are not recorded here.

SUMMARY OF STERILE MEDITERRANEAN FRUIT FLY TRAP FINDS - 1987

COUNTY-CITY number trapped/city			ULTS TRAI females	PPED unknown	TOTALS
Alameda Livermore	1	1	0	0	1
Contra Costa Bethel Island	1	1	0	0	1
Fresno Fresno	4	2	1	1	4
Kern Bakersfield Buttonwillow Lamont Lebec Mettler Mohave	6 1 1 2 2 1	9	1	3	13
Madera Madera 3		0	3	0	3
Merced Dos Palos Santa Nella Westside	1 1 1	1	2	0	3
Riverside Arlington Corona Glen Avon Hemet	1 13 5 1	30	17	1	48

(continued)

number trapped/	city	males	females	unknown	Totals
Riverside (continue	-d)				
Indio	3				
Lake Elsinore	2				
Mira Loma	2				
Moreno Valley	1				
Palm Springs	1				
Perris	2				
Riverside	16				
San Jacinto	1				
Sacramento		1	2	0	3
Sacramento	3				
San Bernardino		111	46	5	162
Alta Loma	1				
Bloomington	17				
Chino	6				
Colton	9				
Cucamonga	1				
Fontana	37				
Hesperia	1				
Higlands	1				
Loma Linda	4				
Los Serranos	2				
Montclair	14				
Muscoy	1				
Ontario	33				
Pomona	1				
Redlands	1				
Rialto	17				
Rancho Cucamonga	2				
San Bernardino	12				
Upland	2				
San Diego		22	15	2	39
Bonita	1				
Chula Vista	5				
Escondido	3				
Imperial Beach	1				
Mira Mesa	1				
National City	3				
Nestor	1				
Oceanside	3				
Ramona	3				
San Bernardo	1				
San Diego	13				
San Onofre	1				
San Ysidro Vista	1 1				
Can Toaquin		0	1	0	1
San Joaquin Tracy	1	U	1	U	1
-	-	_	_		_
San Luis Obispo Grover City	1	1	0	0	1
Giover City	1				



number trapped/ci	ty	males	females	unknown	Tota
Santa Barbara		2	0	0	2
Goleta	1				
Lompoc	1				
Santa Clara		3	0	0	3
San Jose	3				
Santa Cruz		1	0	0	1
Freedom	1	_			
Stanislaus		0	0	1	1
Modesto	1	_			
Tulare		1	2	θ	3
Earlimart	1				
Exeter	1				
Woodlake	1				
Ventura		33	11	0	44
Camarillo	5				
Fillmore	1				
Moorpark	6				
Newbury Park	3				
Oxnard	1				
Port Hueneme	1				
Santa Paula	3				
Simi Valley	14				
Thousand Oaks	6				
Ventura	4				
B . CFA. (99) Tiju a na 11		9	2	0	11
Grand Totals		228	103	14	345

ИЛМВЕЯ ОF FLIES ТЯАРРЕD

NUMBER OF MEDFLIES TRAPPED

WEEK ENDING

12/31

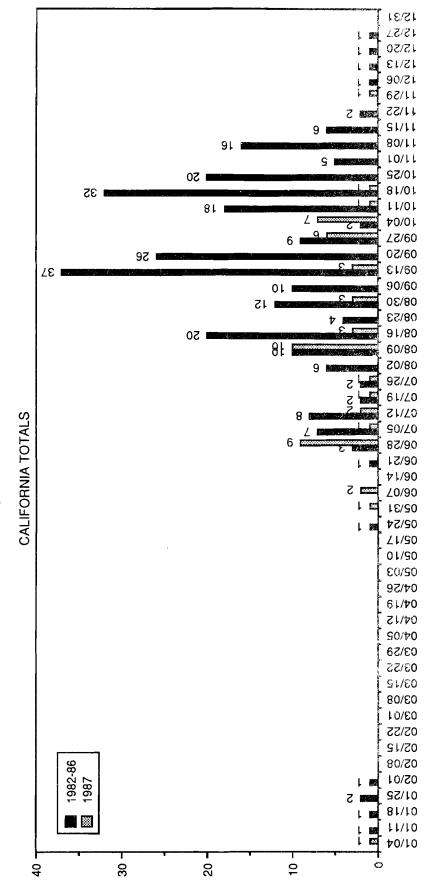
12/27 15/50 15/13

CUMULATIVE NUMBERS TRAPPED

WEEK ENDING

C.P.P.D.R. November-December - 1987-

ORIENTAL FRUIT FLY TRAP FINDS



ИПИВЕЯ ОF FLIES ТЯАРРЕ

WEEK ENDING

СОМОГАТІУЕ ИОМВЕЯ ТВРРЕБ

WEEK ENDING

WEEK ENDING

Page 76

C.P.P.D.R. November-December -1987-

WEEK ENDING

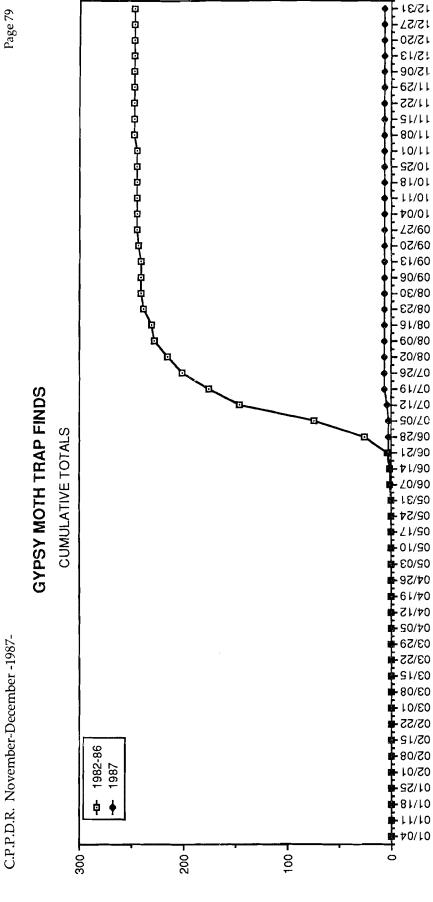
CUMULATIVE NUMBER TRAPPED

100

200

Page 78 12/31 12/27 15/13 15/06 11/56 11/15 11/01 10/18 10/18 11/01 10/01 08\S0 08\S0 08\\$0 2 💌 7 90/60 05/80 E **100** 91/80 62/80 **GYPSY MOTH TRAP FINDS** 3 20/80 08/09 13 CALIFORNIA TOTALS 9Z/Z0 61/Z0 52 30 01/15 90/20 82/90 55 12/90 **†1**/90 20/90 E ## 16/30 \$7/90 Z1/90 01/90 80/90 04/26 61/40 04\02 04\02 03\S5 03\08 03\08 C.P.P.D.R. November -1987-02/2S 05/12 1982-86 1987 80/20 05/01 01/52 **\$0/10** 80 J 40 + 20 -- 09 Ö **ИЛИВЕЯ ОF МОТНЅ ТЯАРРЕ**

WEEK ENDING



CUMULATIVE NUMBER TRAPPED

WEEK ENDING

10

7

œ

9

NUMBER OF BEETLES TRAPPED

4

a

WEEK ENDING

10/10

CUMULATIVE NUMBER TRAPPED

WEEK ENDING

82

BORDER STATIONS

Do you ever wonder what the Border Station Inspectors find? TONS!! The following articles by Dick Brown indicate how much material people try to bring into California.

The Guava Caper! - Yermo PQI Shannon Savoie rejected 106 cases of guavas from Miami, Florida. They were discovered in a bed of a private pickup truck, although they were part of a commercial shipment destined for a wholesale produce house in Los Angeles. The illegal contraband was off-loaded and destroyed.

These guavas are probably the same uncertified fruit that was rejected and returned out of state at Blythe four days earlier. The fruit had not been treated. Shannon's interception may well have prevented a major infestation because guavas are grown in southern Florida, which is generally infested with Caribbean fruit fly.

Lots of Sauce! - In November, Alturas PQI John LaNeave inspected the car of a migrant farm worker from Hood River, Oregon. John found apples, apples and more apples. They were in the trunk, under the back seat, and in a luggage carrier on the roof (which had caved in the top of the vehicle). More than 400 pounds of the uncertified apples were off-loaded for disposal. Several of the individual fruit weighed more than two pounds each. "We thought when they pulled in that the car looked overloaded," John said.

Apples, Apples! - The apple maggot finds from the greater Denver, Colorado area have significantly increased the workload of Yermo Inspectors because I-15 is the main route from Denver to southern California. Autos that normally would have received oral inspections during peak traffic periods now must be thoroughly inspected. The increase in apple interceptions has caused overload problems in the station's septic system. It took seven trips and \$560.00 to have it pumped out and made operational again.

Large collections have been made from other near by areas as well. PQI Jim Proctor intercepted 200 pounds from Weber County, Utah and Mona Montano took 260 pounds from Franklin County, Idaho.

Of course not all rejections must be a total loss. The following account by Dick Brown indicates that all is not necessarily lost when you have your agricultural commodities rejected at the border.

Station Husking Bee - On November 14, PQI Mike Villa rejected a load of uncertified fresh corn from Arizona. The corn was destined for a 4-H Exhibit at the local (Blythe) fairgrounds. The instructor had planned to present an entomology lecture on corn pests, and also to demonstrate corn shucking for his class. Instead (Plan B), the class came to the Blythe Station, husked the corn there, and participated in a first-hand entomological experience by watching our inspectors do their job. After a station tour, the group left with the balance of the corn, which we released as a result of negative insect findings. Everyone seemed to have fun. "We continue to increase pest awareness whenever we can," reports POS Mohammad Azhar.

EXCLUSION AND DETECTION

VARROA MITE, *Varroa jacobsoni* -(A)- Specimens of this honeybee-infesting mite were discovered in an apiary containing bees which had recently been brought in from North Dakota. The collection was made near Chowchilla, Madera County on Dec. 1 by Don Mayeda and Elvin Ballard and again on Dec. 7 by Don Mayeda.

The charts on the following pages outline the quarantine pest interceptions made during this period:

The following "A", "B" and "Q" rated arthropods and mollusks were intercepted in quarantine during this time period.

| COLLECTOR(S)
Koller | Cozzola | Fernandez | Ginsky | Papilli | Gonzalez | Gonzalez | Koller | Brown | Kellum | Reusche

 | Koller | Reusche | Reusche | Reusche | Muñoz | Reusche | Dbaca
 | Reusche

 | Hansen | Hansen | Ginsky/Walsh | Brown

 | Jensen | Nash | Ginsky
 | Papilli
 | Hansen | Dearman/Nash | Davelvy | Brown | Geraty/Sims
 | Hansen | Hansen | Hansen | Hansen | Kenyon |
|--------------------------------|--|---|---|--|---|--|---|--|---
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---|---|---|--|---
---|---|--|---|--|---|
| HOST automobile | potting soil | Carya illinoiensis | Allium sp. | cut flowers | dunnage | conifer dunnage | automobile | Ocium sp. | packing crate | Psidium sp.

 | Taro | papaya | papaya | papaya | papaya | papaya | papaya
 | papaya

 | 2 | Zantedeschia | cut basil | Ocium sp.

 | Cordyline | cut palms | cut foliage
 | lalot
 | lalot | cut palms | areca palm | cut foliage | Ulmus alata
 | ginger | ginger | ginger | ginger | Tillandsia sp. |
| COUNTY | VE | 0 | SD | LA | ALA | ALA | LA | SD | LA | SD

 | LA | LA | LA | LA | LA | LA | LA
 | LA

 | LA | LA | SD | SD

 | SAC | SBdno | SD
 | LA
 | LA | SBdno | SÌ | SD | SD
 | LA | LA | LA | LA | SD |
| ORIGIN | CONN | XI | GA | H | Japan | Korea | H | H | Thailand | Mexico

 | H | Mexico | Mexico | Mexico | Mexico | Mexico | Mexico?
 | Mexico

 | H | New Zealand | 田 | 田

 | H | Mexico | 田
 | 田
 | 田 | Mexico | H | 田 | ARK
 | H | HI | 田 | HI | Mexico |
| DATE
11/12 | 11/16 | 11/12 | 11/26 | 12/05 | 11/24 | 12/11 | 09/15 | 12/15 | 11/18 | 11/04

 | 12/02 | 11/09 | 11/12 | 11/22 | 11/29 | 12/01 | 12/07
 | 12/20

 | 10/26 | 10/23 | 11/18 | 12/14

 | 11/12 | 11/03 | 11/24
 | 12/05
 | 12/15 | 10/28 | 12/03 | 12/01 | 12/07
 | 10/29 | 11/25 | . 12/02 | 12/03 | 11/19 |
| Chinese rose beetle | Oriental beetle | pecan weevil | a leaf beetle | an orchid weevil | a longhorned beetle | a longhorned beetle | mango flower beetle | mango flower beetle | false powderpost beetle | a fruit fly

 | a bulb fly | papaya fruit fly | papaya fruit fly | papaya fruit fly | papaya fruit fly | papaya fruit fly | papaya fruit fly
 | papaya fruit fly

 | a coptosomid bug | southern green stinkbug | southern green stinkbug | southern green stinkbug

 | urban soft scale | a whitefly | spiraling whitefly
 | spiraling whitefly
 | spiraling whitefly | a whitefly | coconut scale | red wax scale | elm scurfy scale
 | green scale | green scale | green scale | green scale | an armored scale |
| ATING SPECIES Adoretus sinicus | Anomala orientalis | | Graphops sp. | Orchidophilus sp. | Paleocallidium rufipenne | Paleocallidium rufipenne | Protaetia fusca | Protaetia fusca | Sinoxylon conigerum | Anastrepha sp.

 | Eumerus aurifrons | Toxotrypana curvicauda | Toxotrypana curvicauda | Toxotrypana curvicauda | Toxotrypana curvicauda | Toxotrypana curvicauda | Toxotrypana curvicauda
 | Toxotrypana curvicauda

 | Coptosoma xenthagramma | Nezara viridula | Nezara viridula | Nezara viridula

 | Pulvinaria urbicola | Aleurocerus sp. | Aleurodicus dispersus
 | Aleurodicus dispersus
 | Aleurodicus dispersus | Aleurotrachelus sp. | Aspidiotus destructor | Ceroplastes rubens | Chionaspis americana
 | Coccus viridis | Coccus viridis | Coccus viridis | Coccus viridis | Diaspis sp. |
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| 11/25 | 12/07 | 12/0/ | 10/28 | 10/28 | 10/28 | 12/03 | 11/06 | 12/21 | 12/24 | 10/26 | 11/02 | 11/07 | 11/19 | 11/25 | 11/27 | 12/01 | 12/07 | 12/16
 | 10/29 | 11/25 | 11/03 | 11/06 | 11/11 | 11/11 | 11/19

 | 11/25 | 12/07 | 11/24 | 12/07
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 | 10/11 |
| an armored scale | azalea bark scale | eim scale
mining 60010 | purple scale | Glover scale | a flatid planthopper | a soft scale | palm mealybug | a whitefly | a soft scale | boxwood scale | lesser snow scale | lesser snow scale | lesser snow scale | lesser snow scale | lesser snow scale | lesser snow scale | lesser snow scale | lesser snow scale
 | an armored scale | Pacific mealybug | magnolia white scale | magnolia white scale | magnolia white scale | magnolia white scale | magnolia white scale

 | magnolia white scale | magnolia white scale | elisae mealybug | club moss mealybug
 | green shield scale | green shield scale
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 | 0 |
| Diaspis sp. | Eriococcus azaleae | rissaraspis unnu
Howardia biolassis | Lepidosaphes beckii | Lepidosaphes gloverii | Melormenis antillarum | Mesolecanium sp. | Palmicultor palmarum | Paraleyrodes sp. | Philephedra tuberculosa | Pinnaspis buxi | Pinnaspis strachani | Pinnaspis strachani | Pinnaspis strachani | Pinnaspis strachani | Pinnaspis strachani | Pinnaspis strachani | Pinnaspis strachani | Pinnaspis strachani
 | Pinnaspis uniloba | Planococcus pacificus | Pseudaulacaspis cockerelli | Pseudaulacaspis cockerelli | Pseudaulacaspis cockerelli | Pseudaulacaspis cockerelli | Pseudaulacaspis cockerelli

 | Pseudaulacaspis cockerelli | l'seudaulacaspis cockerelli | Pseudococcus elisae | Pseudococcus lycopodii
 | Pulvinaria psidii | Pulvinaria psidii
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 | D1. |
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	ginger						um disticum	Anethum graveolens		cut foliage	poom pr		cut flowers	p.	cut foliage (cut flowers	cut flowers	cut flowers			cut flowers	Anthuriums	Cordyline	Cordyline sp	wers					OHA	OHA	OHA		lumber			OHA	obile		OHA	
	LA	LA	LA	LA	LA	LA	SD	MO	SF	SAC	RIV	SD	SJ	SD	LA	SD	SJ	RIV	VE	LA	Sj	BU	80	VE	SÌ	NA	0	STCL	SH	SBO	RIV	LA	SD	SD	SD	ALA	SD	SD	STCL	SJ	SH
	HI	H	HI	H	H	田	ARK	H	HI	H	Guatemala	H	H	H	田	H	田	田田	H	田	田	H	H	H	H	ME	MA	VA	DEL	Z	MA	Z	~	DEL	VA	٠.	VA	DEL	MASS	PENN	Ŋ
	12/01	12/05	12/09	12/12	12/14	12/17	12/07	11/25	10/29	12/24	12/03	11/10	12/23	11/25	11/28	12/08	12/23	11/16	10/28	10/31	12/23	10/29	12/04	12/17	12/23	10/26	11/03	. 11/04	11/09	11/12	11/16	11/20	11/24	12/03	12/04	12/07	12/09	12/14	12/14	12/15	12/22
	green shield scale	bald cypress scale	an aphid	torpedo bug	torpedo bug	a soft scale	longlegged ant	an ant	big-headed ant	big-headed ant	big-headed ant	big-headed ant	a fire ant	an ant	an ant	an ant	green garden looper	green garden looper	green garden looper	green garden looper	gypsy moth																				
	Pulvinaria psidii	Quadraspidiotus taxodii	Semiaphis heraclei	Siphanta acuta	Siphanta acuta	Toumeyella sp.	Anoplolepis longipes	Monomorium sp.	Pheidole megacephala	Pheidole megacephala	Pheidole megacephala	Pheidole megacephala	Solenopsis sp.	Tapinoma melanocephalum	Technomyrmex albipes	Technomyrmex albipes	Chrysodeixes chalcites	Chrysodeixis chalcites	Chrysodeixis chalcites	Chrysodeixis chalcites	Lymantria dispar																				

C.P.P.D.R. - November- December 1987

Engstrom Pfeiffer	Miller	Olson	Correia	Vernon	Vernon	Hixson
OHA OHA	OHA	Schefflera sp	ornamentals	Dracaena marginata	Dracaena	ming fern
SAC SH	SAC	ΓA	МО	SON	SON	VE
MD N IN	PENN	FLA	FLA	H	Puerto Rico	H
12/11 12/14	12/23	11/10	11/17	12/03	11/02	12/17
eastern tent caterpillar a tent caterpillar	white-marked tussock	a snail	a snail	a slug	a slug	a katydid
Malacosoma americanum Malacosoma sp.	Orgyia leucostigma	Bradybaena similaris	Bradybaena similaris	Leidyula sp.	Limax sp.	Xiphidiopsis sp.
αa	Ø	В	В	Ø	Ø	Ø

The following "A", "B" and "Q" rated arthropods and mollusks were intercepted in quarantine during this time period but were not fully identifiable due to condition, life stage or lack of comprehensive taxonomic works on the groups.

RA	RATING SPECIES	COMMON NAME	DATE	ORIGIN	COUNTY	HOST	COLLECTOR(S)
Ø	Cerambycidae	a longhorned beetle	11/24	Asia	ALA	pine & birch	Gonzalez
Ø	Curculionidae	a weevil	11/24	Australia	ALA	conifer dunnage	Gonzalez
Ø	Curculionidae	a weevil	12/01	Mexico	STB	Tillandsia	Tingos
Ø	Scolytidae	a bark beetle	11/24	Asia	ALA	pine & birch	Gonzalez
Ø	Scolytidae	a bark beetle	12/08	Taiwan?	ALA	dunnage	Conant
Ø	Scolytidae	a bark beetle	12/11	HI	ALA	conifer dunnage	Gonzalez
Ø	Scolytidae	a bark beetle	12/17	٠	ALA	dunnage	Conant
0	Pentatomidae	a stink bug	12/07	H	SD	Ocium sp.	Brown
Ø	Rhopalidae	a grass bug	12/01	HI	SD	cut foliage	Brown
Ø	Fulgoroidea	a planthopper	12/23	H	SÌ	cut flowers	Watkins
Ò	Pseudococcidae	a mealybug	12/17	Japan	ALA	Schefflera sp	Conant
Ø	Noctuidae	a plusiine looper	12/07	H,	SAC	Cordyline sp.	Jensen
Ø	Psychidae	a bagworm	10/27	H	LA	automobile	Koller
Ø	Pyralidae	a pyralid moth	11/13	MI	\mathcal{C}	OHA	Alavi
Ø	Blattidae	a cockroach	12/08	Thailand	SLO	orchids	Frank

CREDITS

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